

ABSTRACT OF THE DISCLOSURE

A personal electro-kinetic electro-static air conditioner includes a self-contained ion generator that provides electro-kinetically moved air with ions and safe amounts of ozone, and includes a water retaining element to increase humidity of the output air flow. The ion generator includes a high voltage pulse generator whose output pulses are coupled between first and second electrode arrays. Preferably the first electrode array includes first and second pointed electrodes, and the second electrode array includes annular-like electrodes having a central opening coaxial with the associated pointed electrode. The surface of the annular-like electrodes is smooth and continuous through the opening and into a collar region through which the air flows. A water retaining member is disposed surrounding the output airflow to increase humidity of the output air, which is substantially cleansed of particulate matter, and contains safe amounts of ozone.